



PATENT ABSTRACTS OF JAPAN

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AIHARA SHIGEAKI(54) ROLLER BEARING FILLED WITH POLYMER
CONTAINING LUBRICANT, AND ITS
MANUFACTURE

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(57) Abstract:

PROBLEM TO BE SOLVED: To provide a roller bearing filled with a polymer containing a lubricant capable of surely maintaining the smooth rotation for a long time, and its manufacturing method.

SOLUTION: In a roller bearing 1 filled with a polymer containing a lubricant in a space formed of an outer ring 2, an inner ring 3 and a rolling element 4, the roller bearing 1 filled with the polymer containing the lubricant is filled with a polymer 6, containing the lubricant through a grease film 5 of 10-1000 μm in thickness formed on an inner circumferential surface of at least the outer ring 2 of the roller bearing 1, an outer circumferential surface of the inner ring 3, and a surface of the rolling element 4.

